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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/941,655	08/30/2001	Hiroshi Kanazawa	381KA/50358	7423
7	7590 10/23/2002			
CROWELL & MORING LLP INTELLECTUAL PRPOERTY GROUP P.O. BOX 14300			EXAMINER	
			ELKASSABGI, HEBA	
Washington, D	OC 20044-4300		ART UNIT	PAPER NUMBER

2834 DATE MAILED: 10/23/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

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No.	Application No.	Applicant(s)			
•	09/941,655	KANAZAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Heba Elkassabgi	2834			
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may eply within the statutory minimum of d will apply and will expire SIX (6) N ute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communicati ABANDONED (35 U.S.C. § 133).	ion.		
Status	2 1.1. 2002				
1) Responsive to communication(s) filed on 22					
, _	This action is non-final.	nottore presention as to the morit	a la		
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims			3 IS		
4)⊠ Claim(s) <u>1-9</u> is/are pending in the applicatio	n.				
4a) Of the above claim(s) is/are withdr	rawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-9</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	l/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exami	ner.				
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to b	y the Examiner.			
Applicant may not request that any objection to					
11)☐ The proposed drawing correction filed on		disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the I	Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.	C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:					
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume		, ,			
 3. Copies of the certified copies of the prapplication from the International I * See the attached detailed Office action for a li 	Bureau (PCT Rule 17.2(a)).			
14) Acknowledgment is made of a claim for dome	stic priority under 35 U.S.	C. § 119(e) (to a provisional applica	ation).		
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome	orovisional application has	s been received.			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)	_ •		
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Kusase et al. U.S. Patent 5483116.

Kusase et al. discloses in Figure 1 a rotating electric machine in which a rotor (3), stator (2) are functioned by a stator coil (5) over a stator core (4), with the rotor having a pair of claw-type magnetic poles (15 and 16) placed in alternative directions and in contact with the whole of the magnetic pole surface of the permanent magnet. A permanent magnet (11) is placed close to a pair of claw-type magnetic poles with the field coils (8) placed radialy internally within the claw-type magnetic poles. Kusase et al., further illustrates in Figure 3, the auxiliary magnetic pole portion (AA) in contact with the whole of the magnetic pole surface (BB) of the permanent magnet (11), with the auxiliary magnetic pole portion has a greater width (CC) in the radial outer side of the rotor than the inner side. The inner surface (DD) of the claws in the radial direction of the rotor is parallel to an outer surface of the rotor, with the claws (15) interconnected by a ring-shape member (25); in addition the claws have a magnet holding portion (AA). Further more, Figure 8 discloses a protective covering (PC) on the radial direction of the outer side of the permanent magnet.



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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kusase et al. U.S. Patent 5483116 and further in view of Ragaly J.P. Application 11285214.

Kusase et al. discloses in Figure 1 a rotating electric machine in which a rotor (3), stator (2) are functioned by a stator coil (5) over a stator core (4), with the rotor having a pair of claw-type magnetic poles (15 and 16) placed in alternative directions and in contact with the whole of the magnetic pole surface of the permanent magnet. A permanent magnet (11) is placed close to a pair of claw-type magnetic poles with the field coils (8) placed radialy internally within the claw-type magnetic poles. However, Kusase et al. does not divulge an auxiliary magnetic pole plate with a magnet-holding portion placed between a plurality of claws and permanent magnet, with the auxiliary magnetic pole plate contacting the whole of the magnetic pole surface of the permanent magnet.

Ragaly illustrates in Figure 16, magnetic pole plates (m2 and m3) in contact with the whole of the permanent magnet (m1) placed between a pluralities of claws (GG). In addition that the auxiliary magnetic pole plate (m2 and m3) have a magnet holding

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portion (HH) for the permanent magnet (m1), for the purpose of improving the permanent magnet holder and simplifying construction and lower manufacturing coast.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify Kusase et al. by adding the magnetic pole plate between the claws and amid the permanent magnet, with the magnet-holding portion in contact with the pole plate.

Response to Arguments

Applicant's arguments filed 07/22/02 have been fully considered but they are not persuasive.

Applicant's arguments address points that are in light of the specification. Though the claims are read in light of the specification the limitations of the specifications are not read into the claims.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the rectangular lateral surfaces of permanent in the circumferential direction of the rotor, magnetic poles are tapered, becoming gradually thinner in the radial dimension toward their axial tips, radially thinner than the adjacent magnets, and do not extend radially downward over the entire lateral magnetic pole surface of the adjacent permanent magnets, tapered configuration for the bulk of the respective claws, by means of the downwardly extending auxiliary magnetic pole portions, which cover the surface of the adjacent magnets.) are not recited in the rejected claims. Although the

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claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response to applicant's argument that applicant's invention "enhances the magnetic flux in the magnetic circuit formed between the rotor and the stator," is that the applicant has recognized another advantage, which would flow naturally from following the suggestion of the prior art, cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).

Applicants arguments of Claim 1 and 7 of the present invention distinguishes over Kusase et al. does not recite the limitation of "a shape such that the opposing faces of adjacent claws are in contact with the entire magnetic pole surfaces of the permanent magnets," is seen by the examiner that the limitation is meet by Kusase et al. as shown in Figure 3 as addressed in above action by the examiner. Figure 3 indicates a Permanent magnet (11) in which the opposing faces are in contact with the entire opposing pole surfaces.

Applicants arguments of Claim 7 of the limitation of the "an auxiliary magnetic pole plate is interposed between each of the plurality of claws and the adjacent permanent magnets and that each auxiliary magnetic pole plate has a shape such that it makes contact with the whole of the magnetic pole surfaces of the permanent magnet," is seen by the examiner that the limitation is meet by Ragaly, as shown in Figure. 16 indicates claw poles (GG) in which the pole plates (m3 and m2) is interposed between

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each of the claws and the adjacent magnet (m1) and that the pole plates have a shape that makes contact with the whole of the magnetic pole surfaces of the permanent magnet. Applicant claim is "has a shape such that it makes contact with the whole of the magnetic pole surface", applicant does not specify specifically a shape in which the poles make a contact with the magnetic pole and that the whole of the magnet pole surface is interpreted by the examiner to be the whole of the opposing pole face that the magnet comes in contact with the plate.

Applicant's argument of Claim 3 not meeting the limitation of "magnetic pole portion has a greater thickness at a radially outer portion than at a radially inner portion is a design choice in size. It would have been an obvious matter of design choice to change to shape of the pole portion as would be seen fit by one of ordinary skill in the art, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose, 105 USPQ 237*.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heba Elkassabgi whose telephone number is (703) 305-2723. The examiner can normally be reached on M-Th (6:30-3:30), and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Heba Y. Elkassabgi October 19, 2002 MESTOR RAMIREZ
SUPERVISORY PRIERT SCAMMER
TEOMROLUSY SENTER 2800